FIG.1

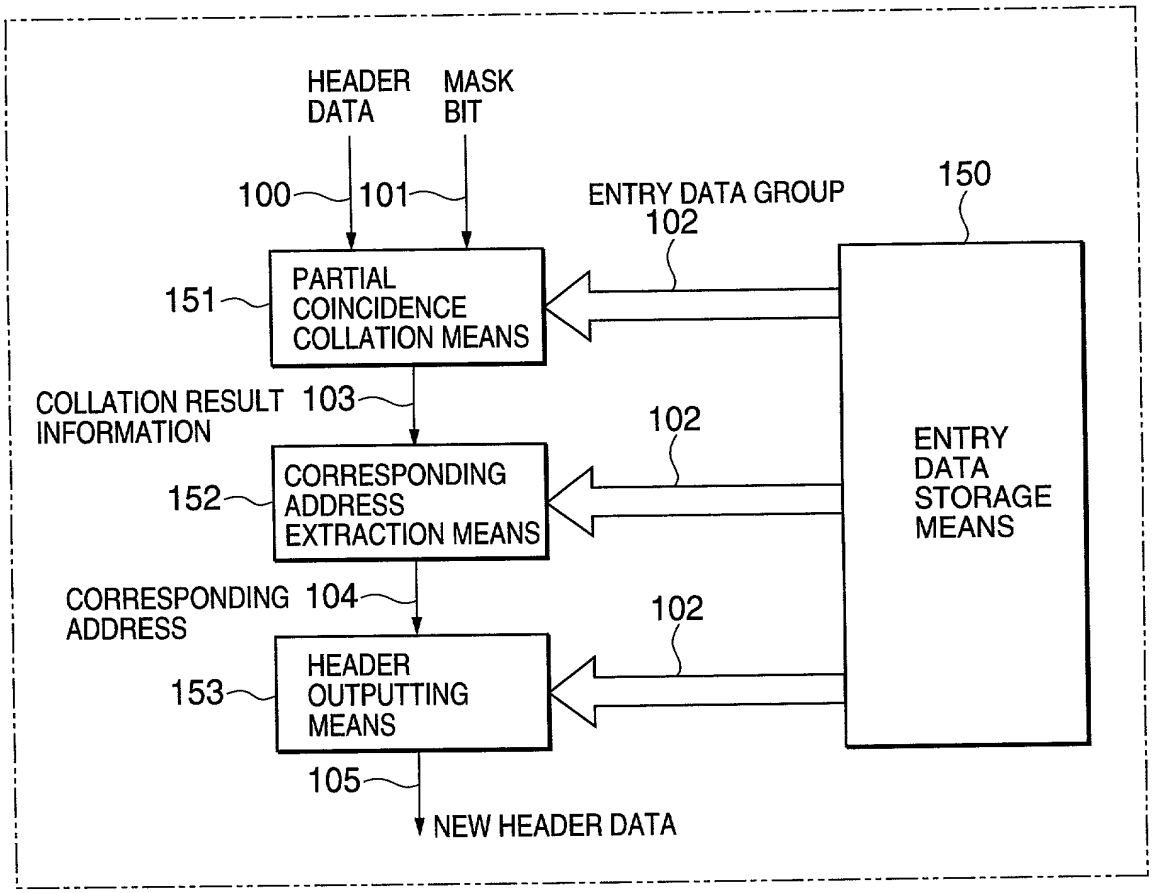
HEADER DATA
MASK BIT
100
101
ENTRY DATA GROUP
102
150
151
PARTIAL COINCIDENCE COLLATION MEANS
COLLATION RESULT INFORMATION
103
102
ENTRY DATA STORAGE MEANS
152
CORRESPONDING ADDRESS EXTRACTION MEANS
CORRESPONDING ADDRESS
104
102
153
HEADER OUTPUTTING MEANS
105
NEW HEADER DATA

FIG.2

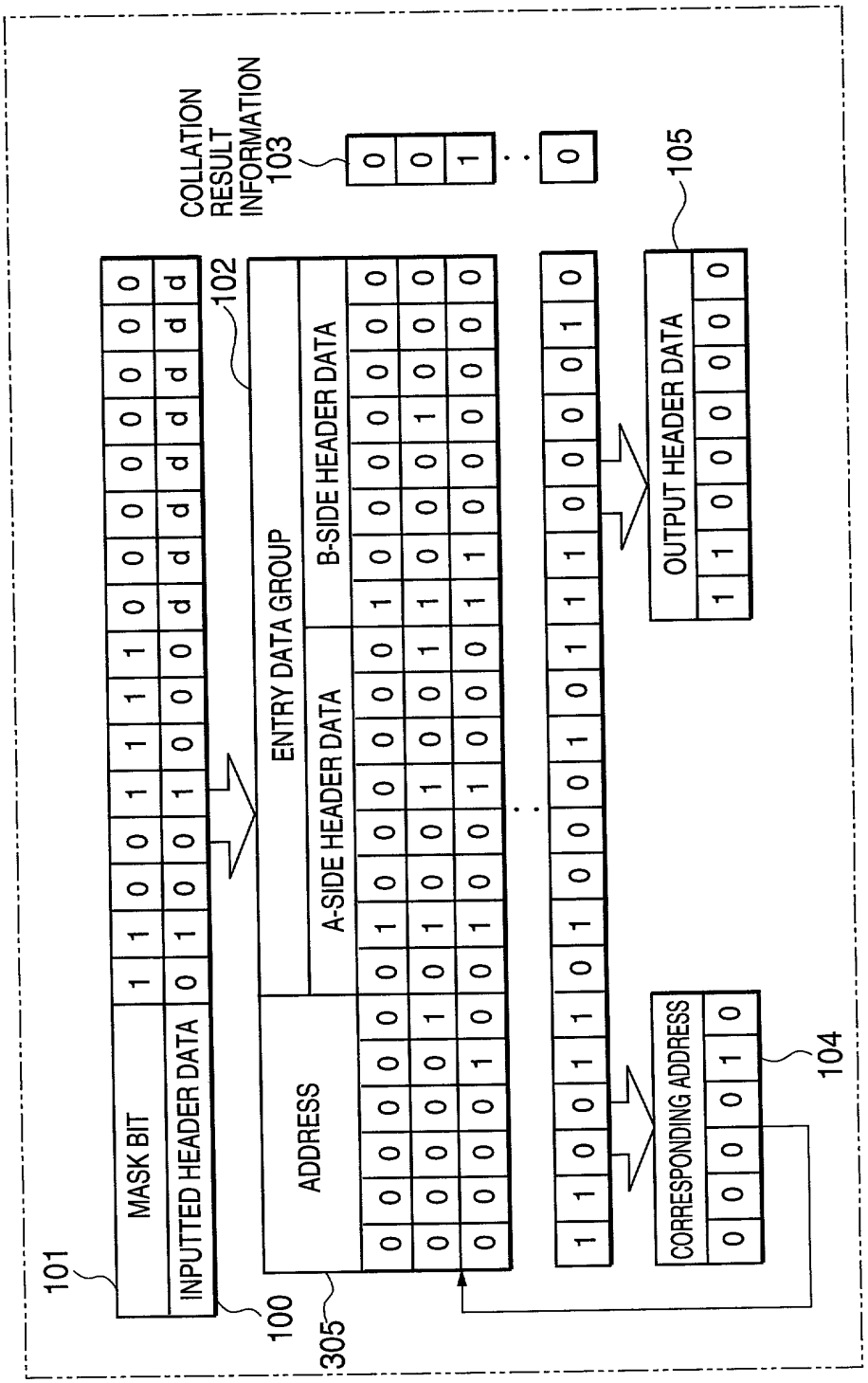
101
MASK BIT
INPUTTED HEADER DATA
100
305
ADDRESS
ENTRY DATA GROUP
A-SIDE HEADER DATA
B-SIDE HEADER DATA
102
COLLATION RESULT INFORMATION
103
CORRESPONDING ADDRESS
104
OUTPUT HEADER DATA
105

FIG.3

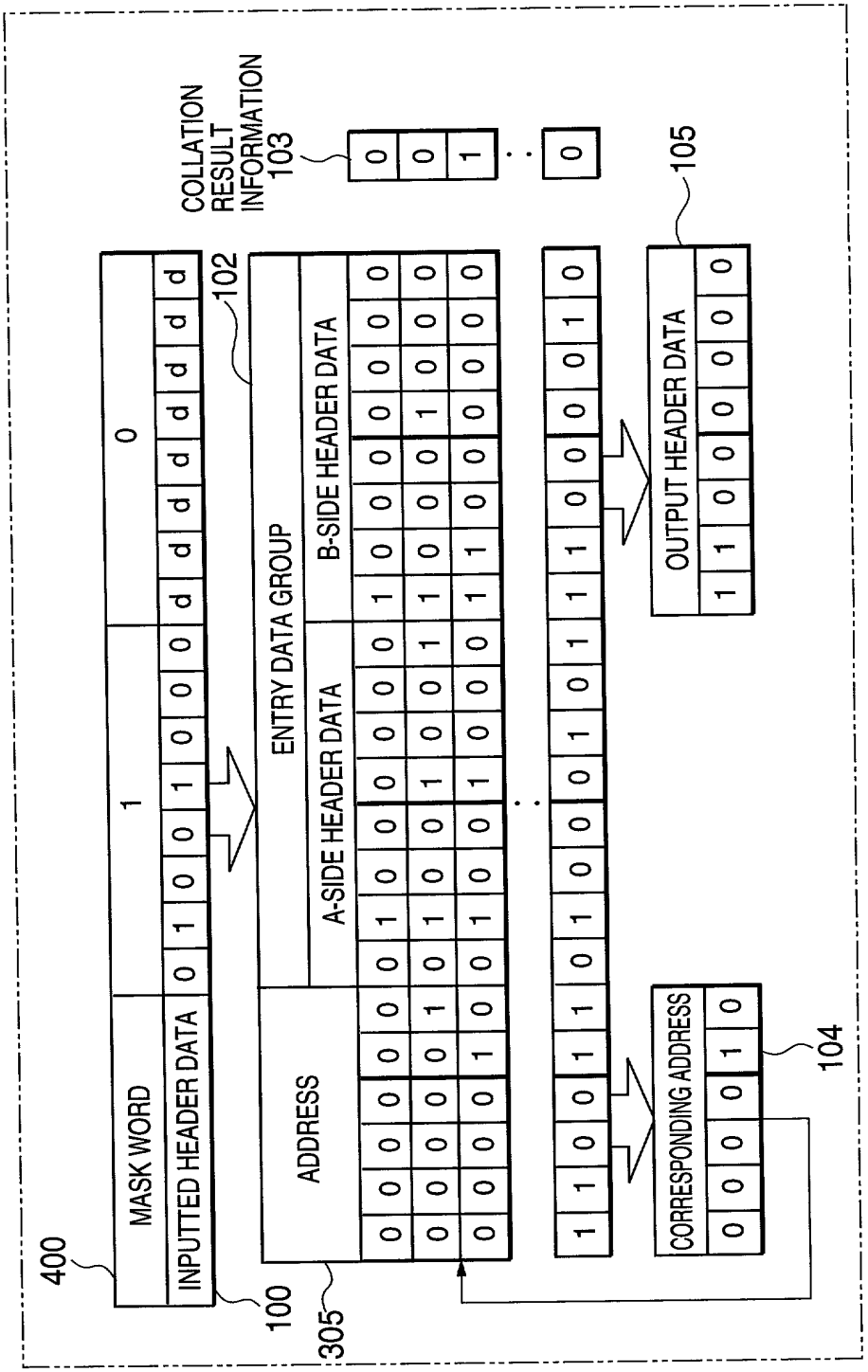
400
MASK WORD
INPUTTED HEADER DATA
100
ADDRESS
ENTRY DATA GROUP
A-SIDE HEADER DATA
B-SIDE HEADER DATA
102
305
COLLATION RESULT INFORMATION
103
CORRESPONDING ADDRESS
104
OUTPUT HEADER DATA
105

FIG.4

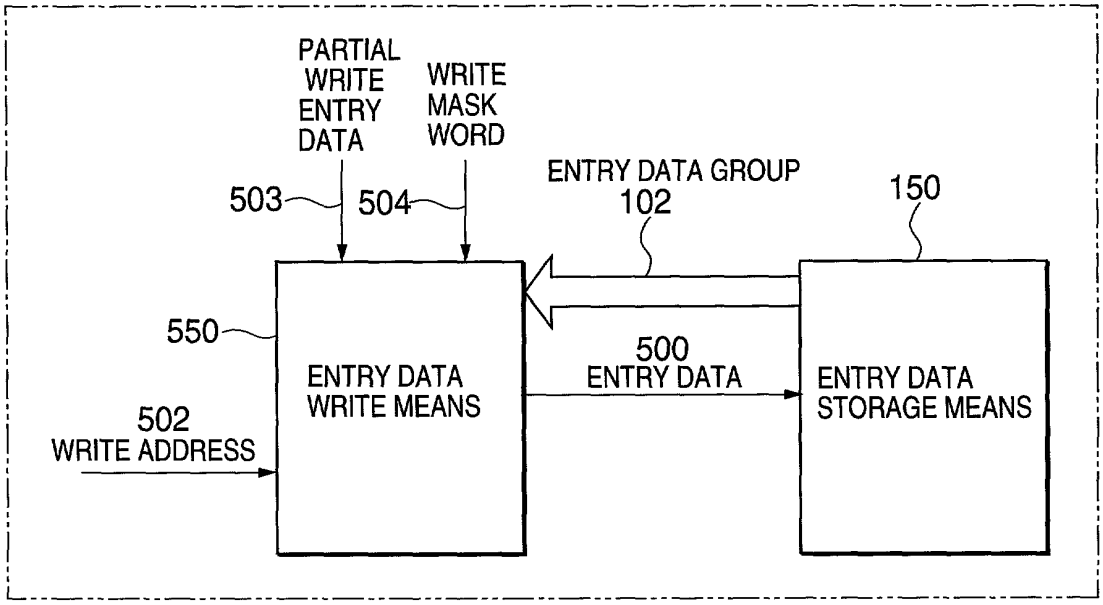

FIG.5

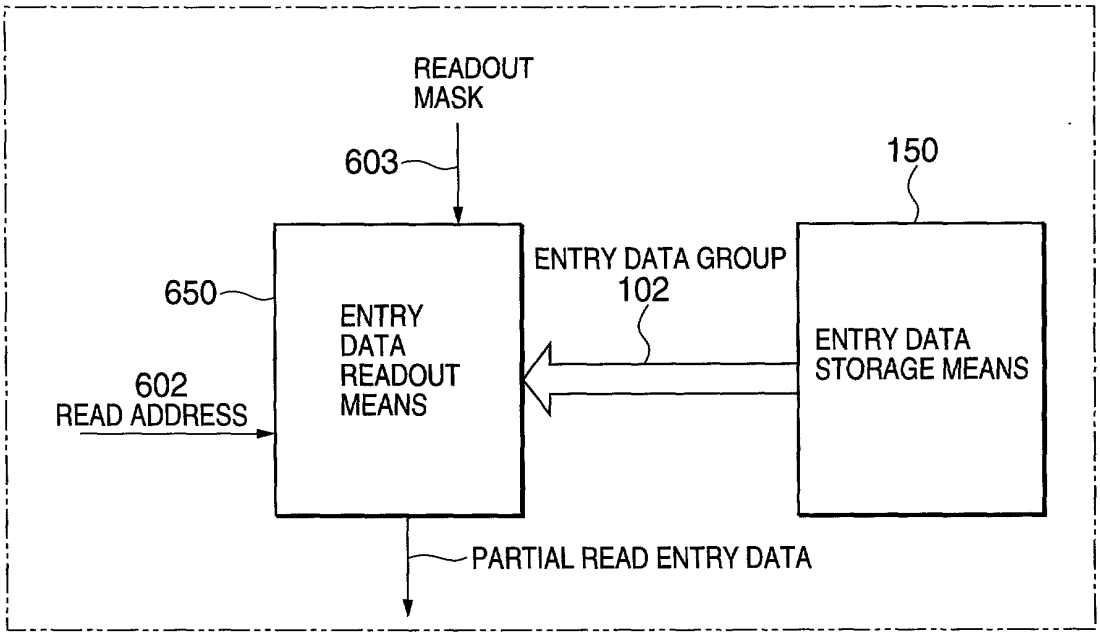

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FIG.6

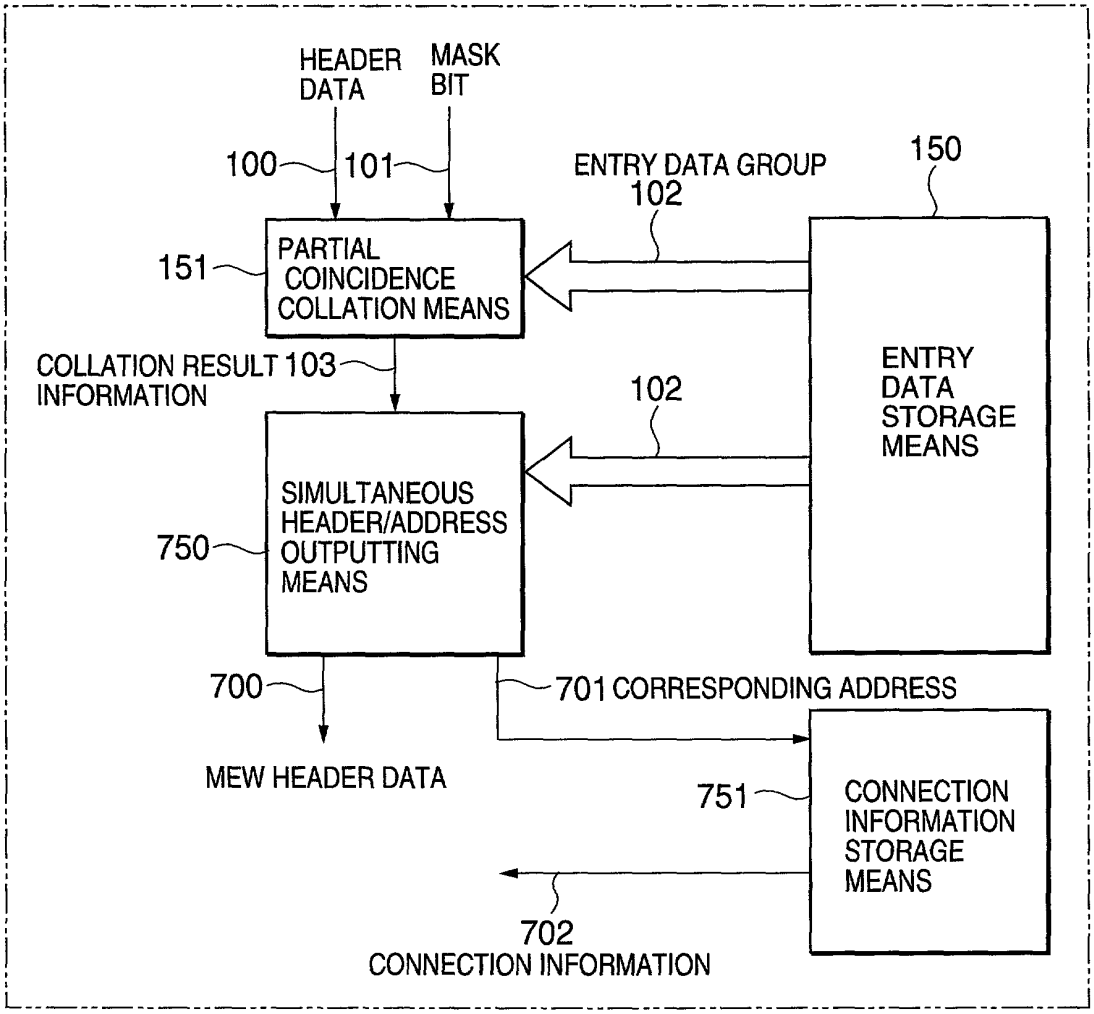

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FIG.7

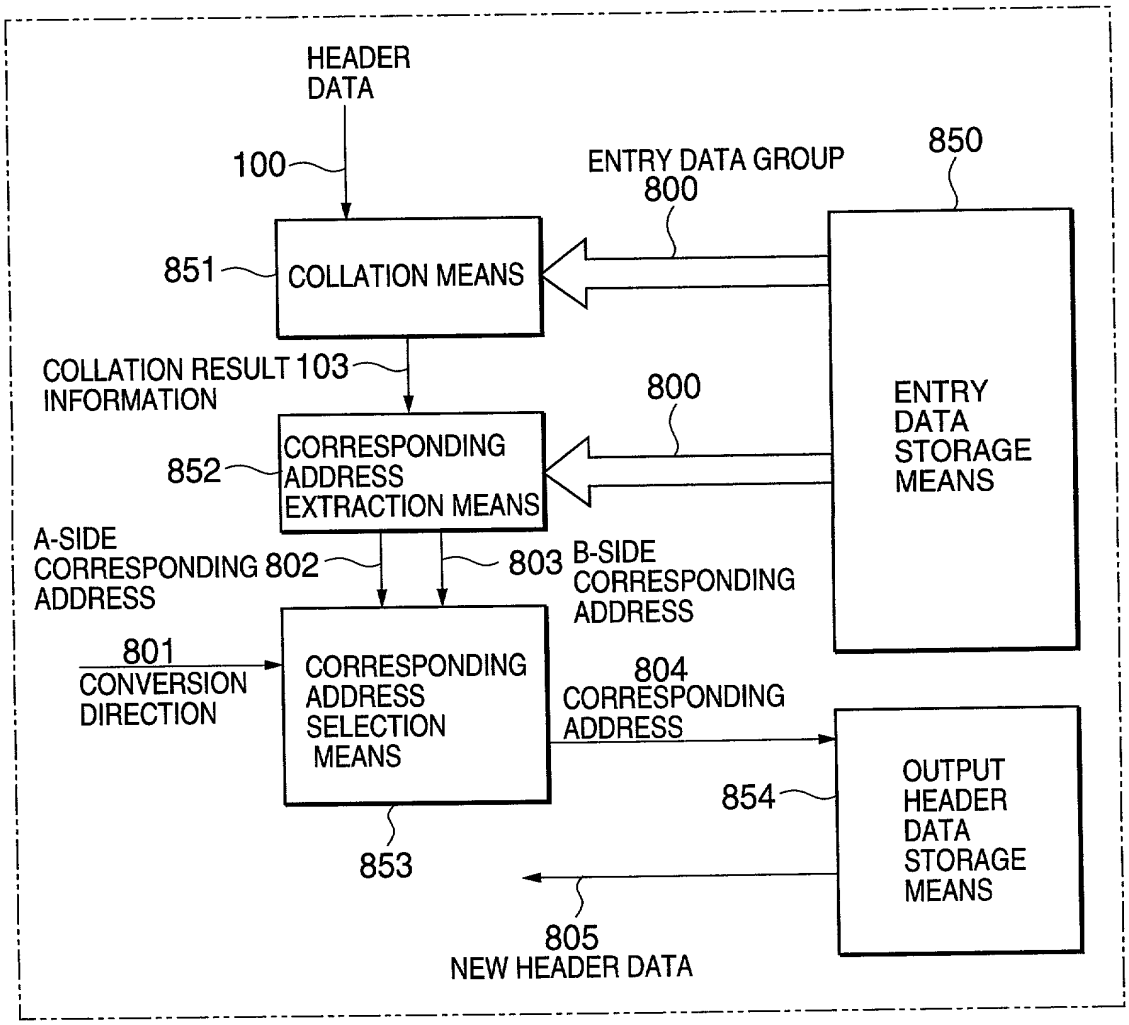

HEADER DATA
100
ENTRY DATA GROUP
800
850
851
COLLATION MEANS
COLLATION RESULT INFORMATION
103
800
ENTRY DATA STORAGE MEANS
852
CORRESPONDING ADDRESS EXTRACTION MEANS
A-SIDE CORRESPONDING ADDRESS
802
803
B-SIDE CORRESPONDING ADDRESS
801
CONVERSION DIRECTION
CORRESPONDING ADDRESS SELECTION MEANS
804
CORRESPONDING ADDRESS
854
OUTPUT HEADER DATA STORAGE MEANS
853
805
NEW HEADER DATA

FIG.8

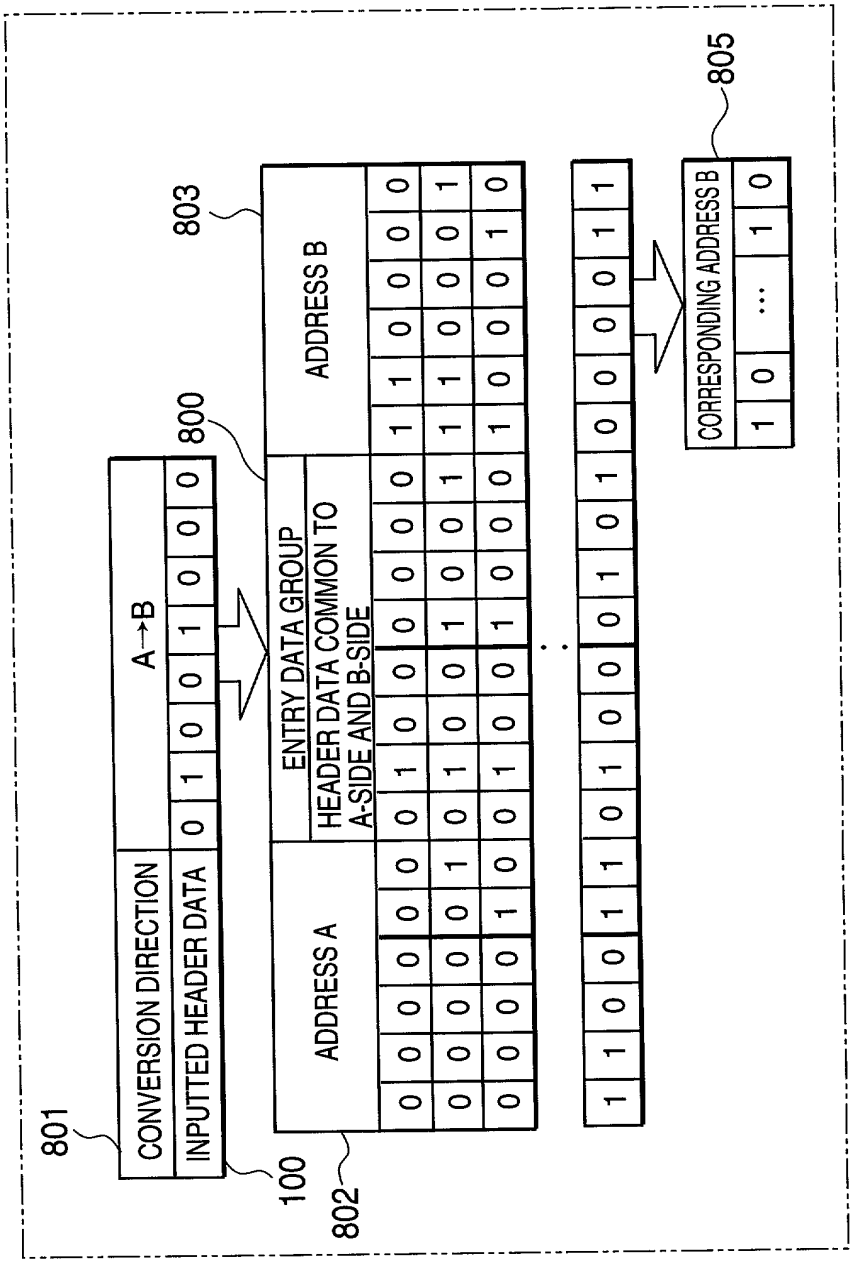

801
CONVERSION DIRECTION
A→B
INPUTTED HEADER DATA
0 1 0 0 1 0 0 0
100
800
803
ENTRY DATA GROUP
HEADER DATA COMMON TO A-SIDE AND B-SIDE
ADDRESS A
ADDRESS B
802
805
CORRESPONDING ADDRESS B
1 0 … 1 0

FIG.9

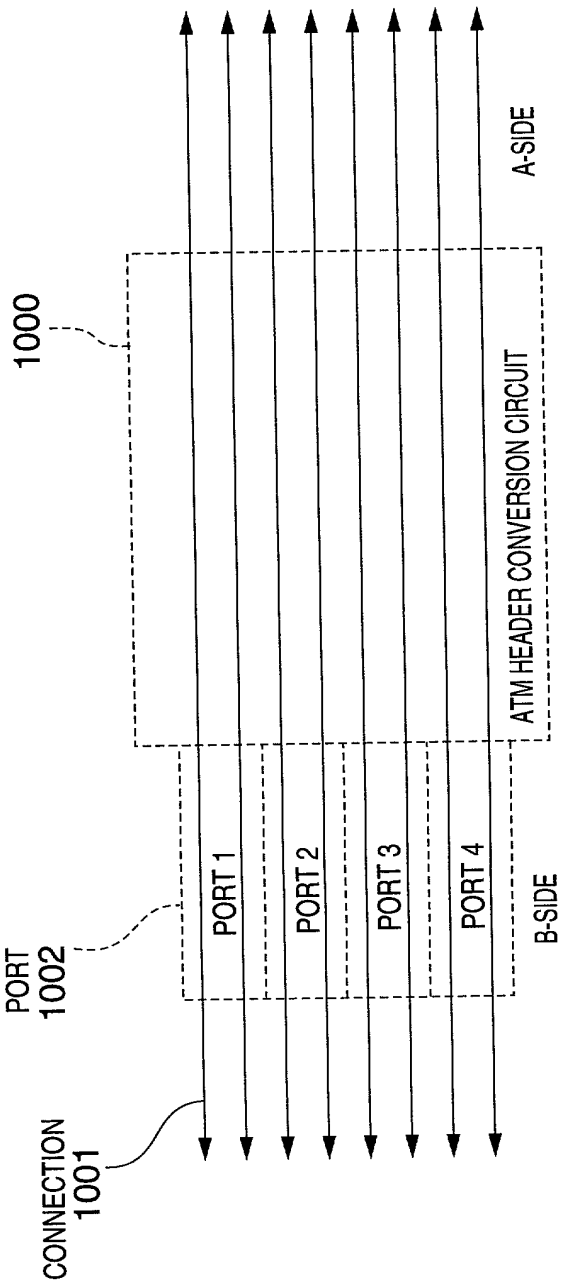
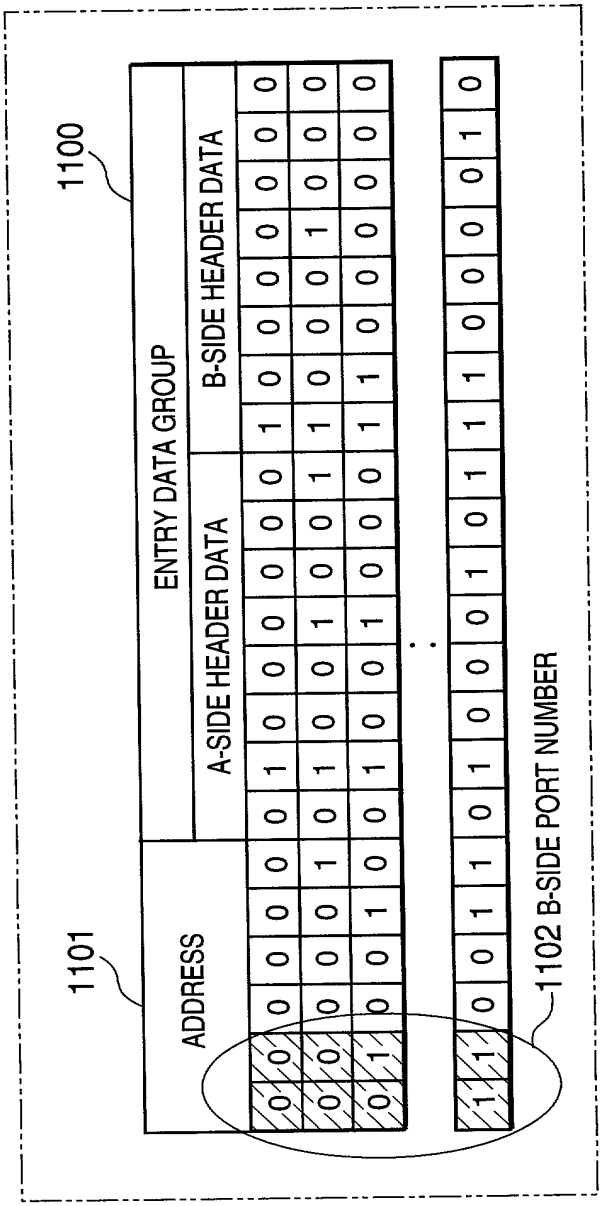

1000
A-SIDE
ATM HEADER CONVERSION CIRCUIT
PORT 1
PORT 2
PORT 3
PORT 4
B-SIDE
PORT
1002
CONNECTION
1001

FIG.10


1100
ENTRY DATA GROUP
1101
ADDRESS
A-SIDE HEADER DATA
B-SIDE HEADER DATA
1102 B-SIDE PORT NUMBER

2052207 604080T

FIG.11

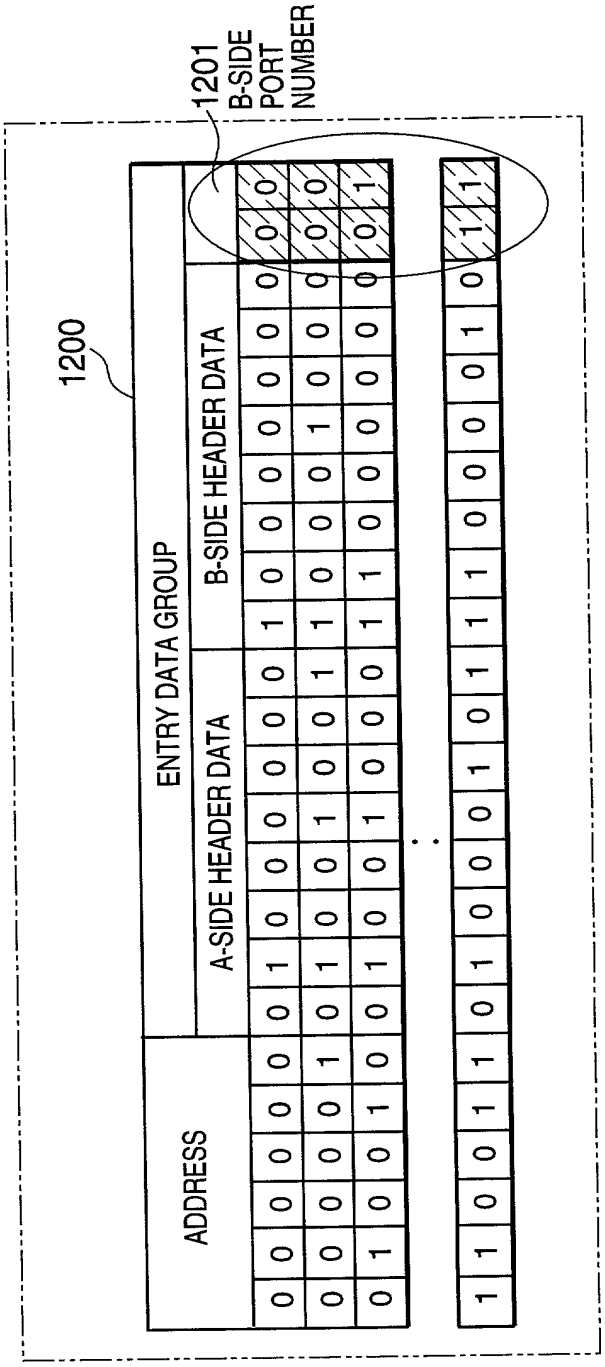


FIG.12

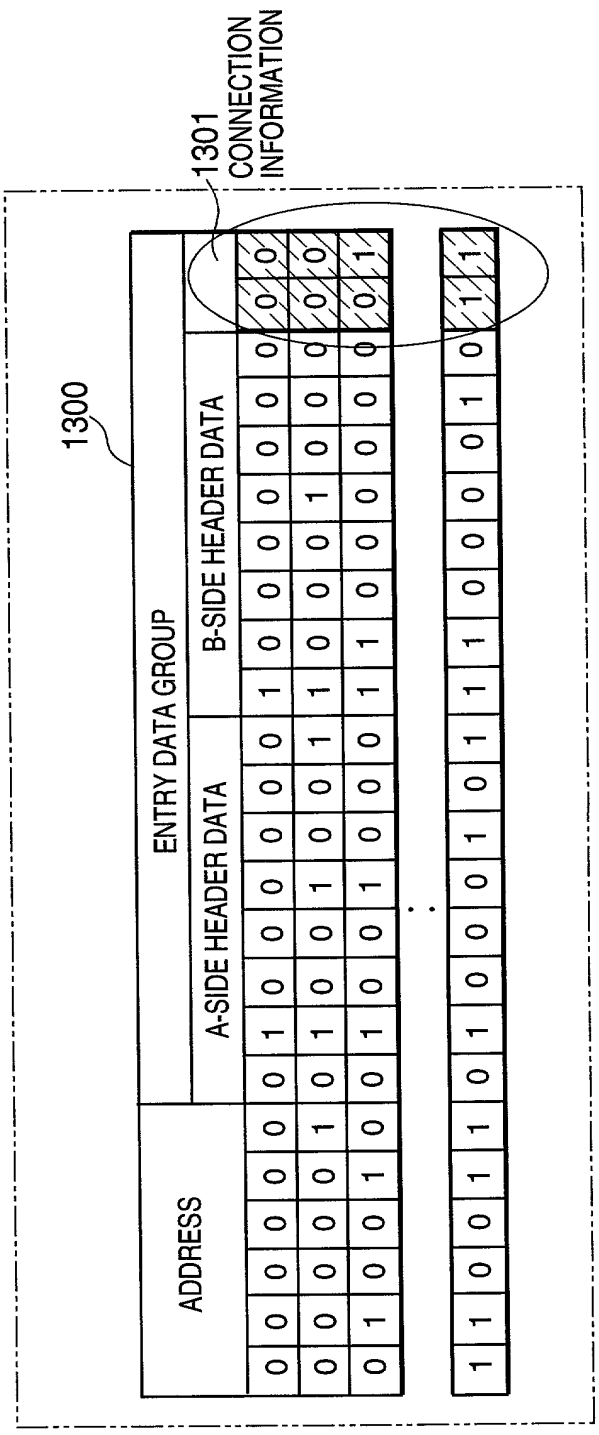

1300
ENTRY DATA GROUP
ADDRESS
A-SIDE HEADER DATA
B-SIDE HEADER DATA
1301
CONNECTION INFORMATION

FIG.13

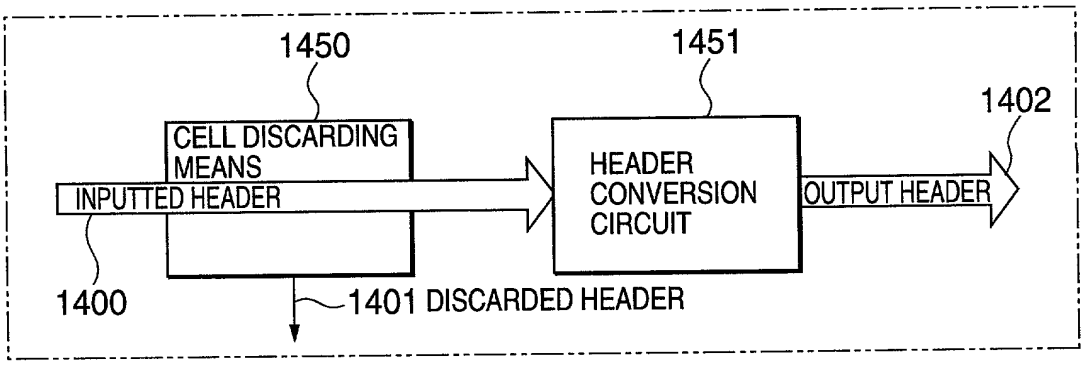


FIG.14

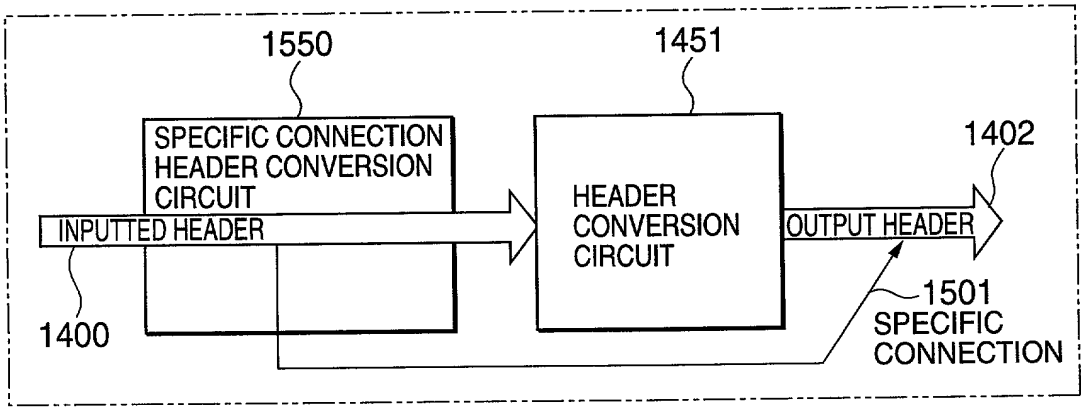


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FIG.15

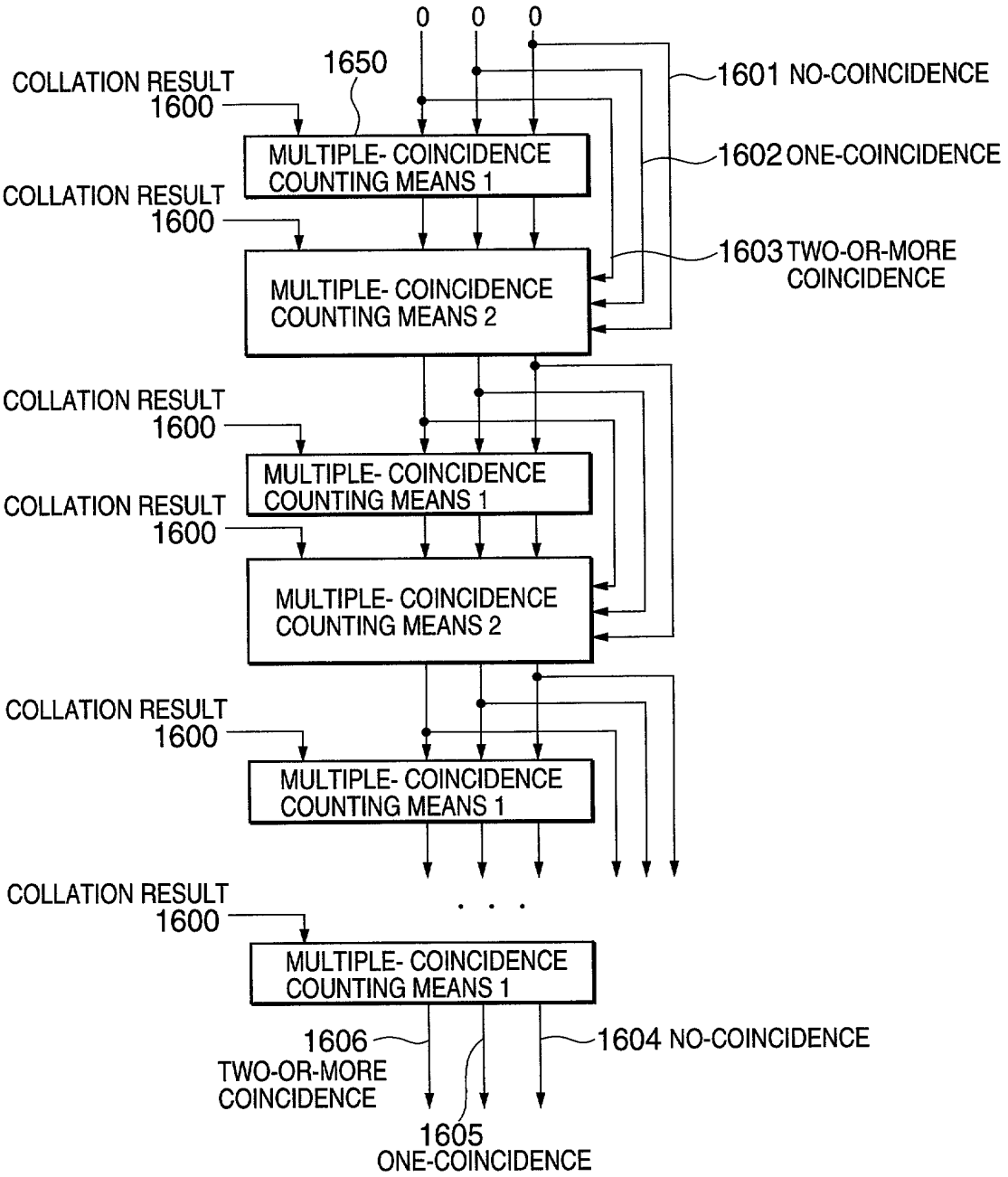
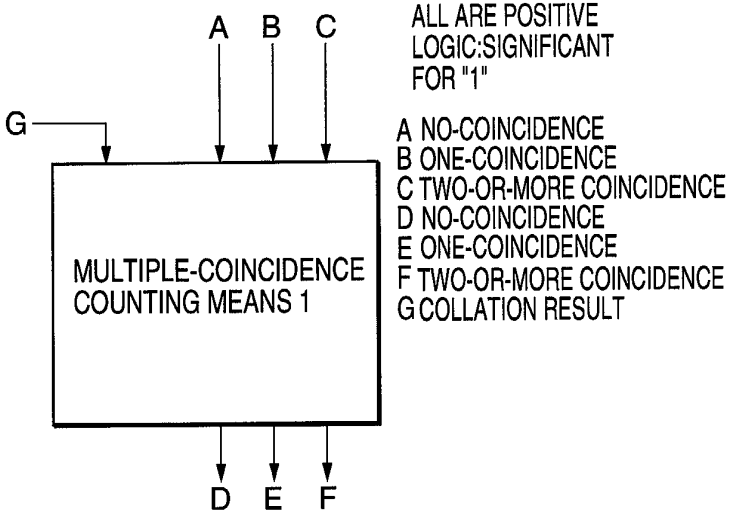

0 0 0
1650
COLLATION RESULT 1600
1601 NO-COINCIDENCE
MULTIPLE- COINCIDENCE COUNTING MEANS 1
1602 ONE-COINCIDENCE
COLLATION RESULT 1600
1603 TWO-OR-MORE COINCIDENCE
MULTIPLE- COINCIDENCE COUNTING MEANS 2
COLLATION RESULT 1600
MULTIPLE- COINCIDENCE COUNTING MEANS 1
COLLATION RESULT 1600
MULTIPLE- COINCIDENCE COUNTING MEANS 2
COLLATION RESULT 1600
MULTIPLE- COINCIDENCE COUNTING MEANS 1
COLLATION RESULT 1600
MULTIPLE- COINCIDENCE COUNTING MEANS 1
1606 TWO-OR-MORE COINCIDENCE
1604 NO-COINCIDENCE
1605 ONE-COINCIDENCE

FIG.16A

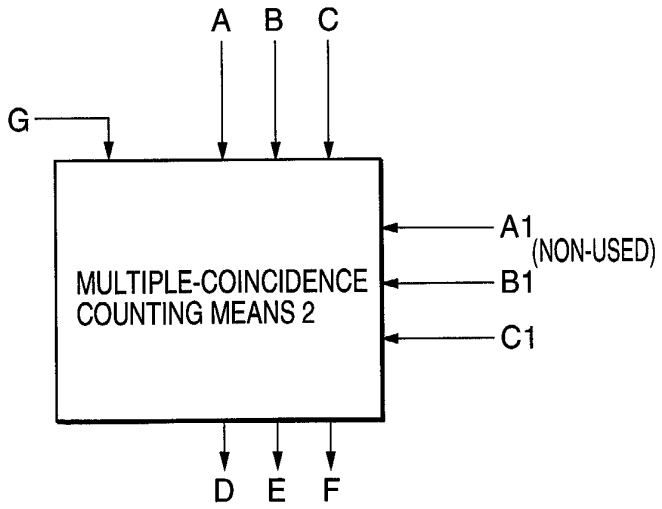


ALL ARE POSITIVE
LOGIC:SIGNIFICANT
FOR "1"

A NO-COINCIDENCE
B ONE-COINCIDENCE
C TWO-OR-MORE COINCIDENCE
D NO-COINCIDENCE
E ONE-COINCIDENCE
F TWO-OR-MORE COINCIDENCE
G COLLATION RESULT

——— D GENERATION CIRCUIT ———
if (A=1 and G=0) then D<=1
else D<=0;
——— E GENERATION CIRCUIT ———
if {(A=1 and G=1) or B=1}
then E<=1
else E<=0;
——— F GENERATION CIRCUIT ———
if {(B=1 and G=1) or C=1}
then F<=1
else F<=0;

FIG.16B



——— D GENERATION CIRCUIT ———
if (A=1 and G=0)
then D<=1
else D<=0;
——— E GENERATION CIRCUIT ———
if {(A=1 and G=1) or B=1 or B1=1}
then E<=1
else E<=0;
——— F GENERATION CIRCUIT ———
if {((B=1 or B1=1) and G=1)
or C=1 or C1=1}
then F<=1
else F<=0;

FIG.17

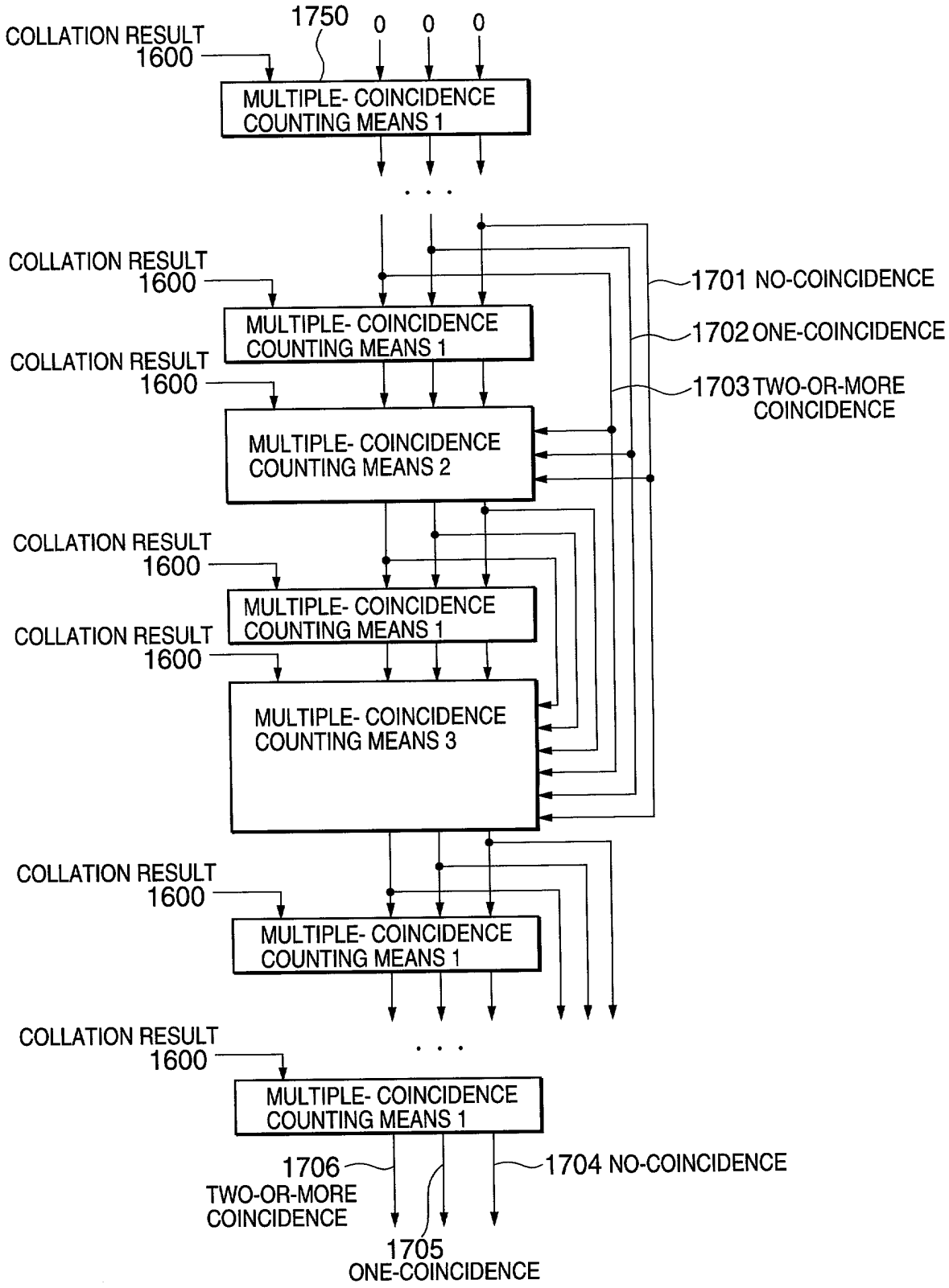
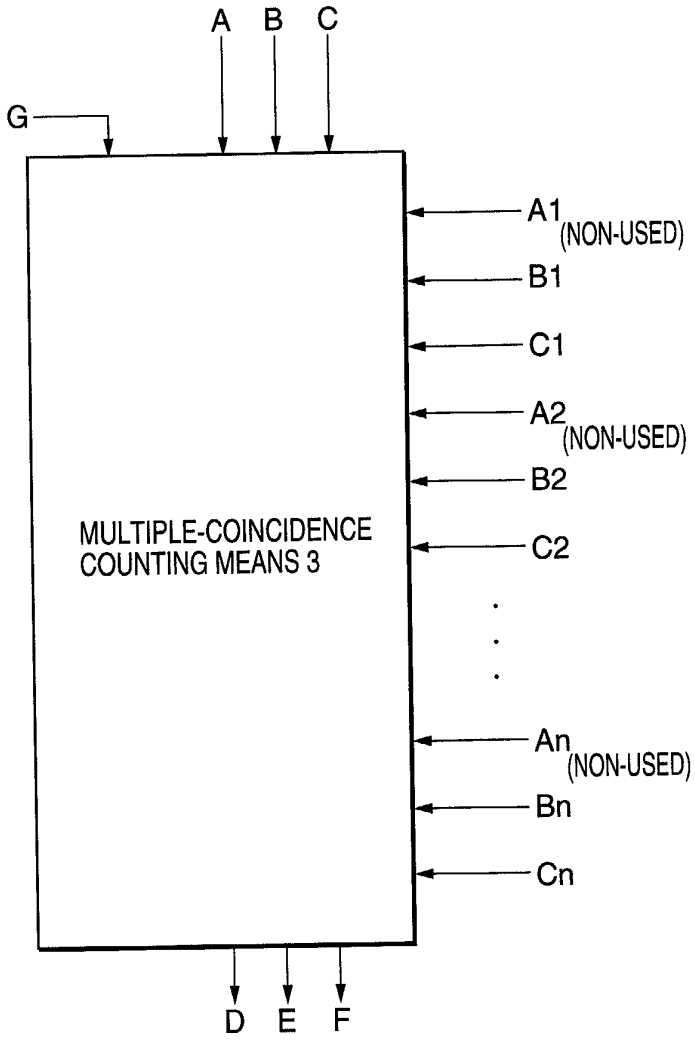

1750
0
0
0
COLLATION RESULT
1600
MULTIPLE- COINCIDENCE COUNTING MEANS 1
COLLATION RESULT
1600
MULTIPLE- COINCIDENCE COUNTING MEANS 1
1701 NO-COINCIDENCE
1702 ONE-COINCIDENCE
1703 TWO-OR-MORE COINCIDENCE
COLLATION RESULT
1600
MULTIPLE- COINCIDENCE COUNTING MEANS 2
COLLATION RESULT
1600
MULTIPLE- COINCIDENCE COUNTING MEANS 1
COLLATION RESULT
1600
MULTIPLE- COINCIDENCE COUNTING MEANS 3
COLLATION RESULT
1600
MULTIPLE- COINCIDENCE COUNTING MEANS 1
COLLATION RESULT
1600
MULTIPLE- COINCIDENCE COUNTING MEANS 1
1706
TWO-OR-MORE COINCIDENCE
1704 NO-COINCIDENCE
1705
ONE-COINCIDENCE

FIG.18



——— D GENERATION CIRCUIT ———
if (A=1 and G=0)
then D<=1
else D<=0;
——— E GENERATION CIRCUIT ———
if {(A=1 and G=1) or B=1 or B1=1
or · · · or Bn=1}
then E<=1
else E<=0;
——— F GENERATION CIRCUIT ———
if {((B=1 or B1=1 or · · · or Bn=1) and G=1)
or C=1 or C1=1 or · · · Cn=1}
then F<=1
else F<=0;

FIG.19
RELATED ART